

the output signal from the playback signal detection means is transferred to the A/D conversion means, for every conversion command, according to the signal from the serial reception means.

9. (Amended) An optical disk control device as defined in Claim 1, wherein:

the conversion command from the A/D conversion command means, which is obtained from the serial reception means, includes a selection signal; and

the signal switching means is operated on the basis of the selection signal, and the time-division-multiplexed signal is transferred to the AD conversion means for every A/D conversion command.

10. (Amended) An optical disk control device as defined in Claim 1, wherein:

the serial transfer means and the serial reception means perform state-setting communication for setting the internal state of the optical disk control device, in addition to communication for the conversion command from the A/D conversion command means; and

discrimination between these communications is performed according to identifying signals or bit lengths.

5. An optical disk control device as defined in Claim 3, wherein:

each of the plural analog signal processing means further includes a sample hold means for sampling and holding the output signal from the signal switching means, on the basis of the signal transferred from the serial transfer means; and

the A/D conversion means converts the analog signal which is sampled and held by the sample hold means, into a digital signal, instead of the output signal from the signal switching means.

6. An optical disk control device as defined in Claim 4, wherein the analog signal processing means includes a pair of the signal switching means, and a pair of the sample hold means.

7. An optical disk control device as defined in Claim 4, wherein each of the plural analog signal processing means includes a pair of the signal switching means, and a pair of the sample hold means.

8. (Amended) An optical disk control device as defined in Claim 1 ~~or 2~~, wherein:

the serial transfer means is controlled on the basis of the conversion command from the A/D conversion command means; and

the output signal from the playback signal detection means is transferred to the A/D conversion means, for every conversion

command, according to the signal from the serial reception means.

9. (Amended) An optical disk control device as defined in Claim 1-~~or 2~~, wherein:

the conversion command from the A/D conversion command means, which is obtained from the serial reception means, includes a selection signal; and

the signal switching means is operated on the basis of the selection signal, and the time-division-multiplexed signal is transferred to the AD conversion means for every A/D conversion command.

10. (Amended) An optical disk control device as defined in Claim 1-~~or 2~~, wherein:

the serial transfer means and the serial reception means perform state-setting communication for setting the internal state of the optical disk control device, in addition to communication for the conversion command from the A/D conversion command means; and

discrimination between these communications is performed according to identifying signals or bit lengths.

11. An optical disk control device as defined in Claim 4, wherein:

the analog signal processing means further includes a